

1 GGCACGAGGAGATCTAGGTTCAAATTAAATTAAATGTGTCGCCCTAGTGGTAAGGACAGACCTCAGACTGATGAAATGGGCTCAGAATTACTT
91 AGACAAAGGGATATTGGCAACTCTCTCCCTTTCTGTGTTTGATGAAAGAACCTGAAGAGAACATAATAG

181 AGAACAAAATACGGTAATCTCTTCATTGCTAAGTGTCTCAAGTGGACTTAGGGGGCAATGGAGCGCTTAGGGCTACATCT

271 GACTTGGACTGAAATATAGGTGAGGAGACAAGATTGTCTCATATCCGGGAAATCATAACCTATGACTAGGACGGAAAGGGAAAGGACTGCA*

361 CTTTACTTCAGTGGGATCTCGGCCCTAGGCTCAAGCCAAGTGTCTCACAGTGAGAAAGCAAGAGAAATAAGCTAAATACTCCTGTCTGA*

451 ACAAGGCAGGGCTCCTGGTAAAGCTACTCCTGATGATGCCACCGGATTGTTCAAAAGTGGACCCCAGGGAGAAGTCGGAGCA*

541 AAGAACTTACCAAGCAGTCCAAAGGGCCAGAAAGCAAACCTGGAGGTGAGACCCAAGAAAGCAAGCTGAAACCATGCTGACTTTGTACAC
C E D T E S V P G K P S V N A D E E V G G P Q I C R V C G D 16

631 TGTGAGGACACAGAGTCTGTCCTGGAAAGCCAGTGTCAACGGCAGATGAGGAAGTGGAGGTCCCAAAATCTGCCGTGTATGTGGGAC
C E D T E S V P G K P S V N A D E E V G G P Q I C R V C G D 46

721 AAGGCCACTGGCTATCACTTCATGACATGTAAGGATGCAAGGGCTTTTCAGGAGGGCCATGAAAAGCAGAACGCCGGCTGAGG
K A T G Y H F N V M T C E G C K G F F R R A M K R N A R L R 76

811 TGCCCCCTCCGGAAGGGCCCTGCGAGATCACCCGGAAAGACCCGGACAGTGCCTGCCAGGGCTGTGGCAAGTGCCTGGAGAGGGC
C P F R K G A C E I T R K T R Q C Q A C R L R K C L E S G 106

901 ATGAAAGAAGGAGATGATCATGTCGGACGGCCGGAGGGAGGGGGCCTGATCAAGGGAAAGGAAAGTGAACGGACAGGGACTCAG
M K K E M I M S D E A V E E R R A L I K R K S E R T G T Q 136

Fig. 1A

991 CCACTGGGAGTGCAGGGCCTGACAGAGGAGCAGGGATGATCAGGGAGGTGATGGACGCTCAGATGAAAACCTTTGACACTACCTTC
 P L G V Q G L T E E Q R M M I R E L M D A Q M K T F D T T F 166
 S H F K N F R L P G V L S S G C E L P E P L Q A P S R E E A 196
 1081 TCCCATTCAGAATTTCGGCTGCCAGGGTGCTTAGGAGTGGCTGCGAGTGTGCCAGAGCCCCATCGACGGAAAGAAGCT
 A K W S Q V R K D L C S L K V S L Q A A G G G W Q C L E L Q 226
 1171 GCCAAGTGGAGGCCAGGTCCGGAAAGATCTGTGCTCTTGTAAGGTCTCTGCAAAGTGGGGGGAGGATGGCAGTGTCTGGAACTACAA
 T P S R Q W R K E I F S L L P H M A D M S T Y M F K G I I S 256
 1261 ACNCCCGGCCGACAGTGGGGAAAGAGATCTTCTCCCTGCTGCCACATGGCTGACATGTCAACCTACATGTCAAAGGCATCATCAGC
 F A K V I S Y F R D L P I E D Q I S L L K G A A F E L C Q L 286
 1351 TTGCCCAGTCAACTTCCTACTTCAGGGACTCTGCCATCGAGGACCAGATCTCCCTGCTGAAGGGGGCGCTTCGAGGCTGTGTCAACTG
 R F N T V F N A E T G T W E C G R L S Y C L E D T A G G F Q 316
 1441 AGATTCAACACAGTGTTCACAGGGAGACTGGAAACCTGGAGTGTGGGGCTACTGCTGGAGAACACTGCAAGGTGGCTTCAG
 Q L L E P M L K F H Y M L K L Q L H E E V L M Q A I 346
 1531 CAACTCTACTGGGCCATGCTGAATTCCACTACATGCTGAAGAAGCTGGCAATGAGGGAGGTATGTGCTGAGGTGGCTTCAG
 S L F S P D R P G V L Q H R V V D Q L Q E Q F A I T L K S Y 376
 1621 ATTGAATGCAATGGCCAGGGTGTGTGCAGCACCGGGTGGACAGCTGGCAGGAAATTGCCATTACTCTGAAGTCCTAC
 I E C N R P Q P A H R F L K I M A M L T E L R S I N A Q 406
 1711 ATGGATGCAATGGCCAGGGTGTGTGCATAGGGTCTGTCTGAAAGATCATGGCTATGGCTACCGAGCTCCGCCATCAATGCTCAG
 H T Q R L L R I Q D I H P F A T P L M Q E L F G I T G S * 434
 1801 CACACCCAGGGCTGCGCATCCAGGACATACACCCCTTGTGCTACGGAGTTGGCATACAGGTAGCTGAGC
 (SEQ ID NO:2)
 1891 GCTGCCCTGGGTGACACCTTCGAGAGGGAGCCAGACAGGGACTCCGGGCCTCTGAGCCGGCAAGACAGATGGACACTGCCAAGA
 1981 GCCGACAATGCCCTGCTGGCTGTCTCCCTAGGAAATTCTGCTATGACAGCTGGCATGGGTGCC 2068
 (SEQ ID NO:1)

Fig. 1B

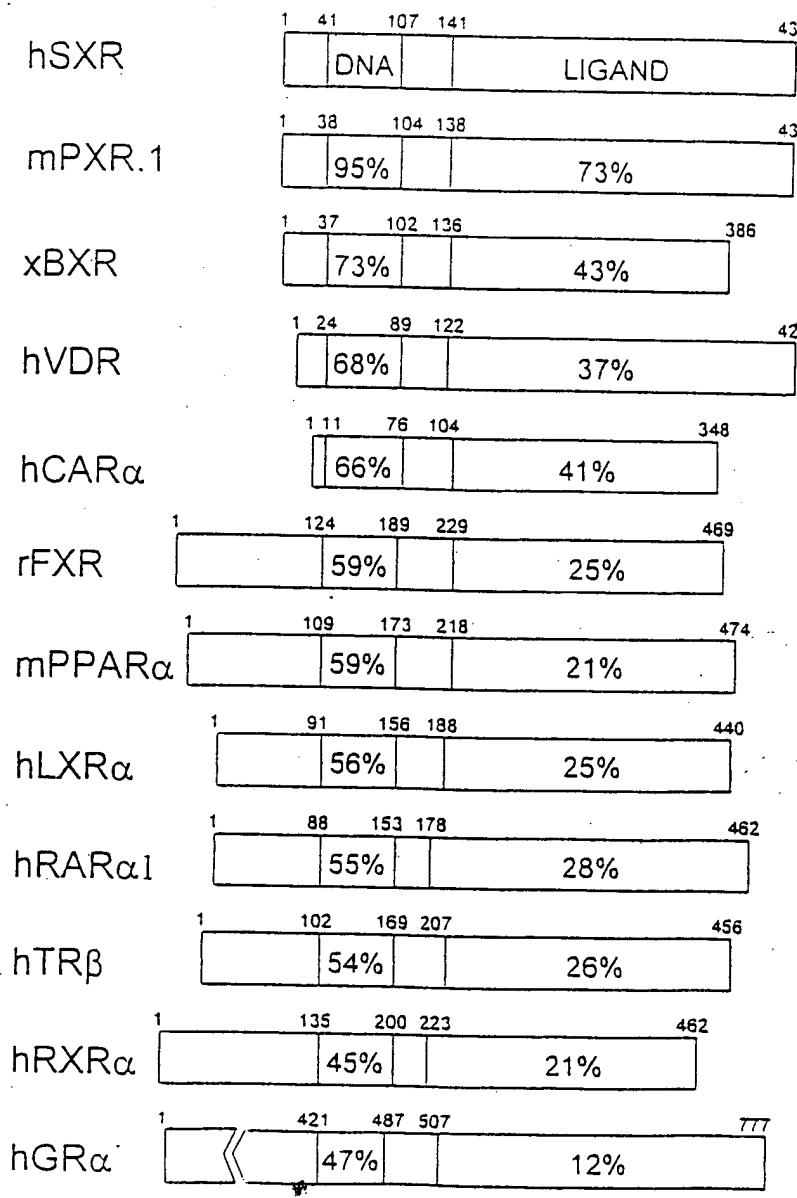


Fig. 1C

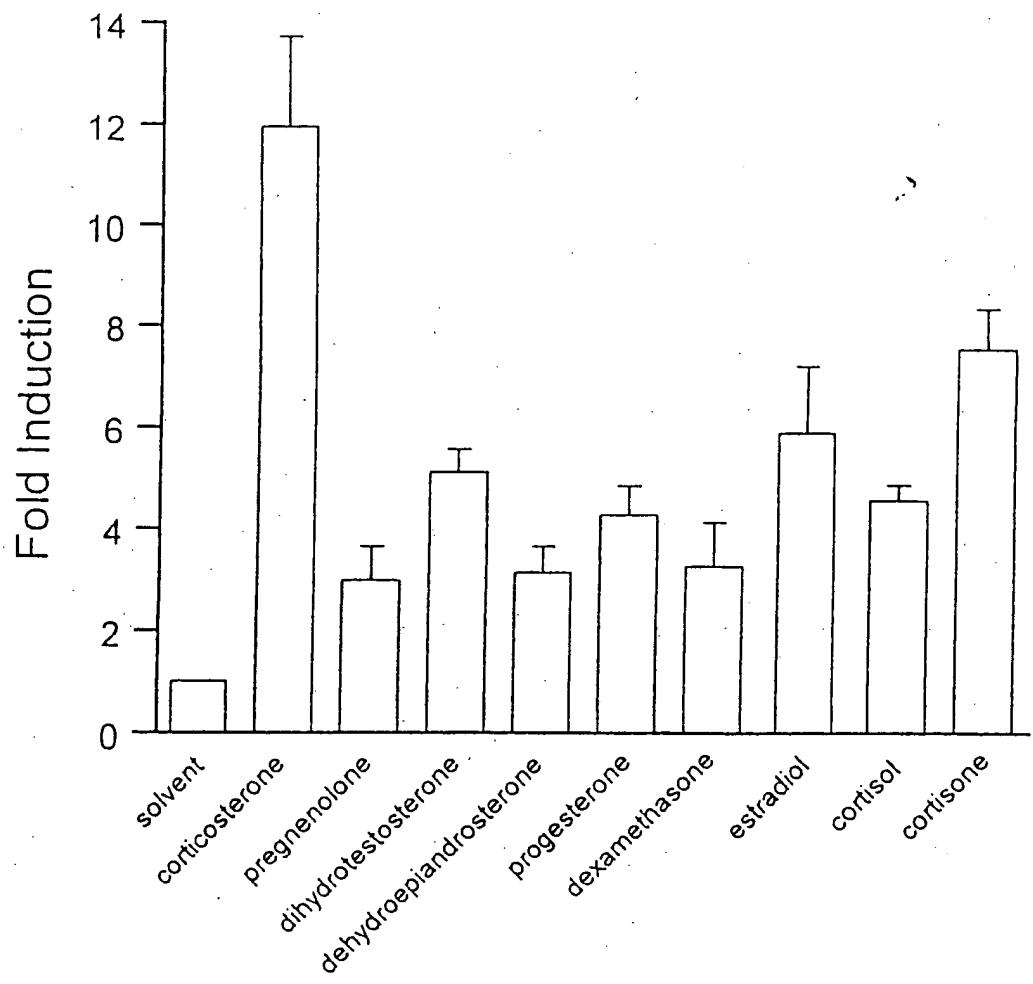


Fig. 2

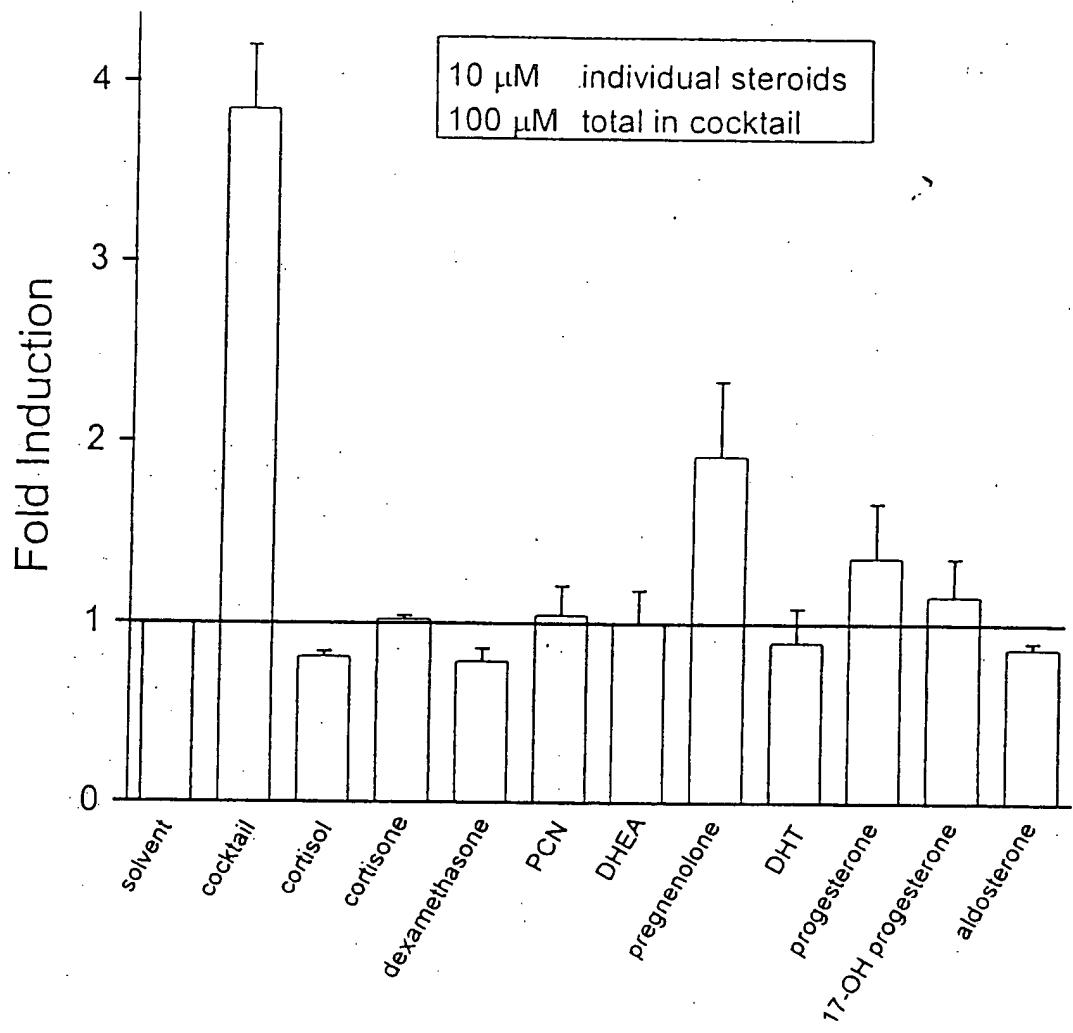


Fig. 3

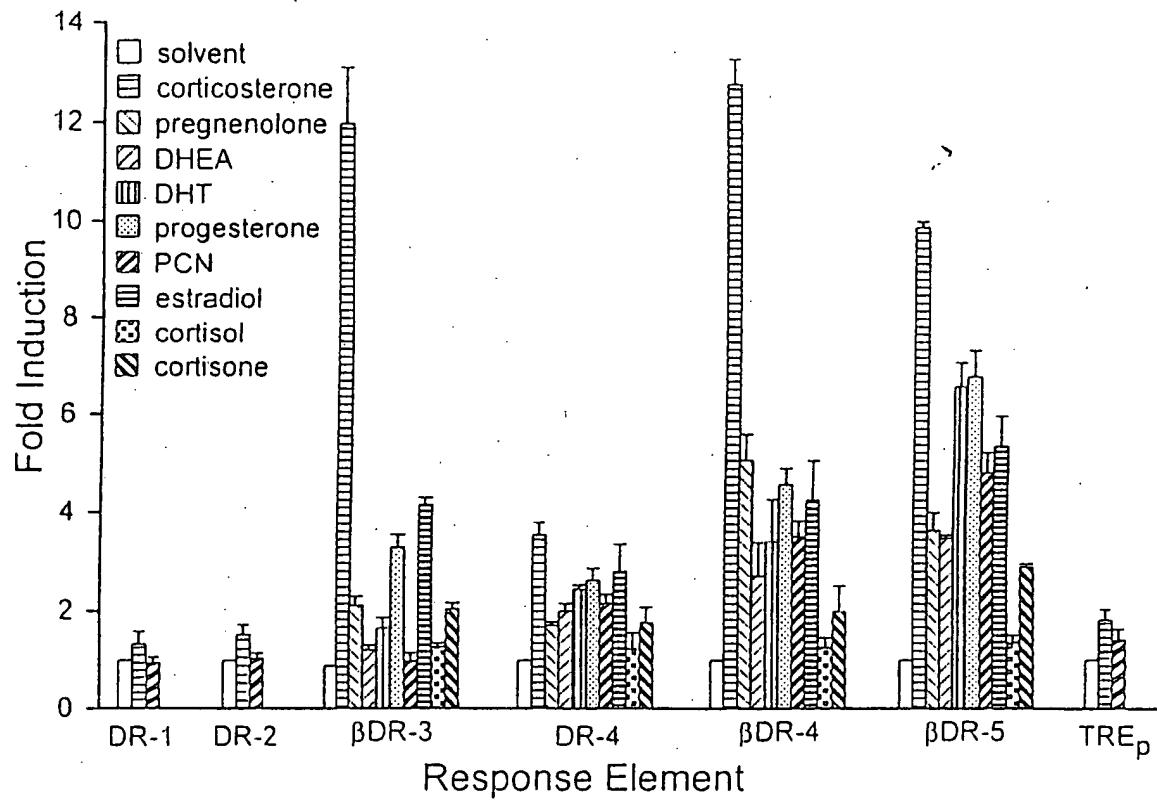


Fig. 4

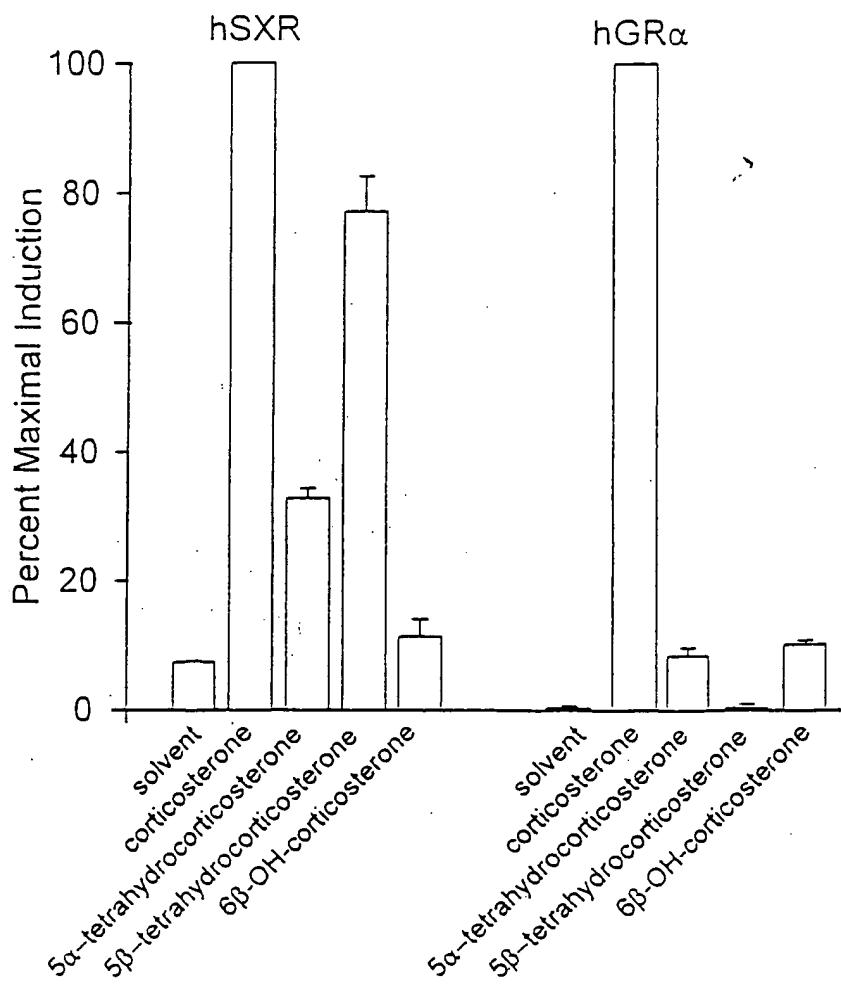


Fig. 5

DR-3

rCYP3A1 tagac AGTTCA tga AGTTCA tctac (SEQ ID NO:3)
rCYP3A2 taagc AGTTCA taa AGTTCA tctac (SEQ ID NO:4)
rUGT1A6 actgt AGTTCA taa AGTTCA catgg (SEQ ID NO:5)

DR-4

rbCYP2C1 caaatc AGTTCA acag GGTTCA ccaat (SEQ ID NO:6)
rP450R cac AGGTGA gctg AGGCCA gcagc AGGTCG aaa
(SEQ ID NO:7)

DR-5

rCYP2A1 gtgca GGTTCA actgg AGGTCA acatg (SEQ ID NO:8)
rCYP2A2 gtgct GGTTCA actgg AGGTCA gtatg (SEQ ID NO:9)
rCYP2C6 agtct AGTTCA gtggg GGTTCA gtctt (SEQ ID NO:10)
hCYP2E1 gagat GGTTCA aggaa GGGTCA ttaac (SEQ ID NO:11)

Fig. 6A

CYP3A4 tagaata TGAACt caaagg AGGTCA gtgagtgg (SEQ ID NO:33)
CYP3A5 tagaata TGAACt caaagg AGGTAA gcaaaggg (SEQ ID NO:34)
CYP3A7 tagaata TTAACt caatgg AGGC.A gtgagtgg (SEQ ID NO:35)

Fig. 6B

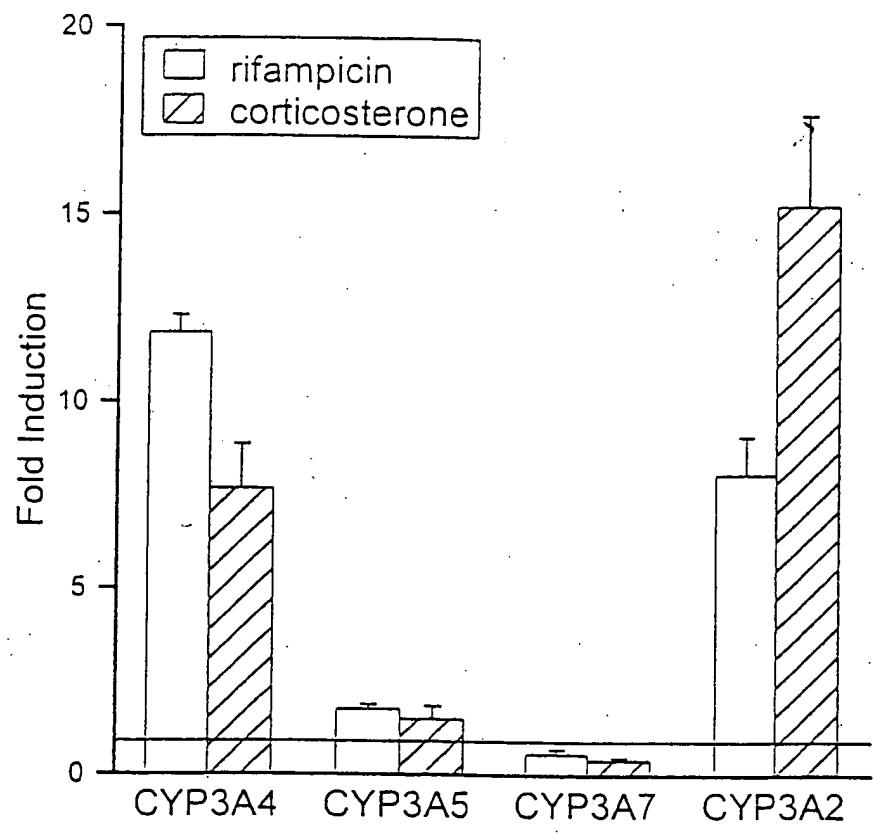


Fig. 6C

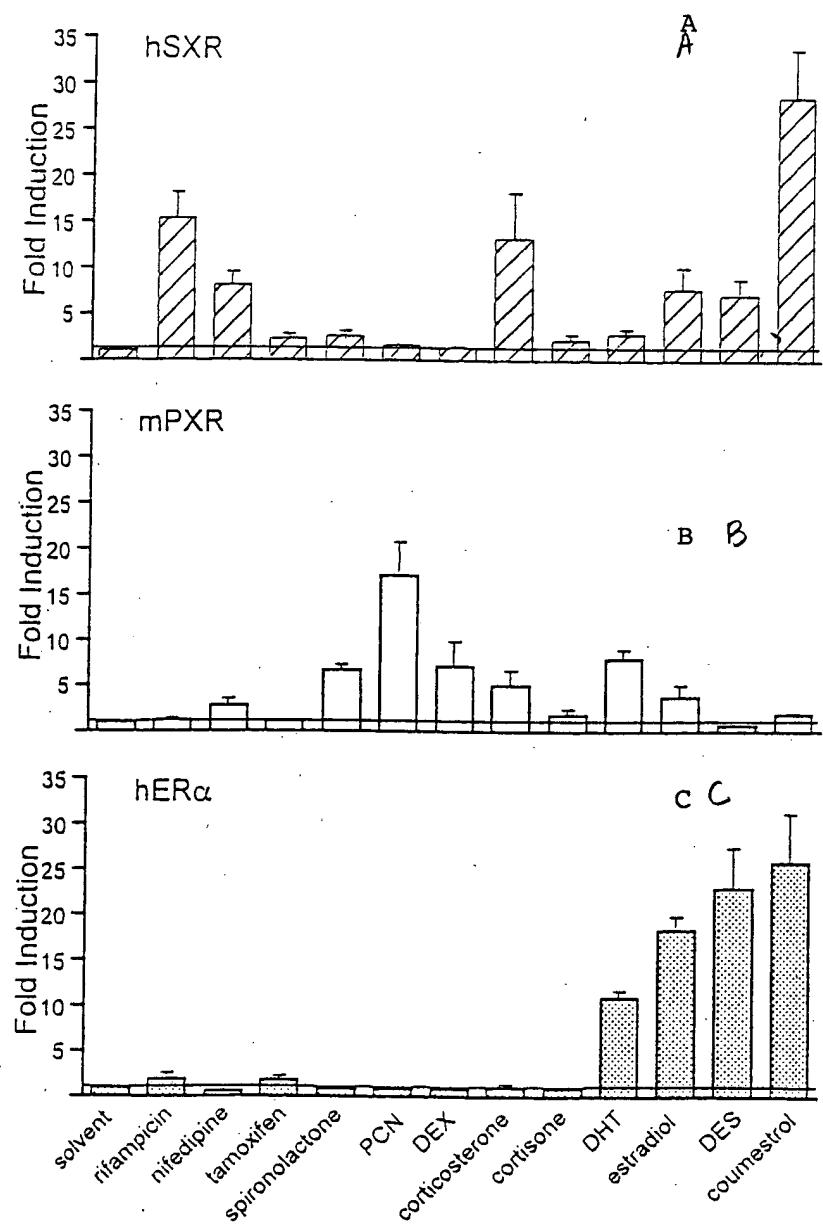


Fig. 7

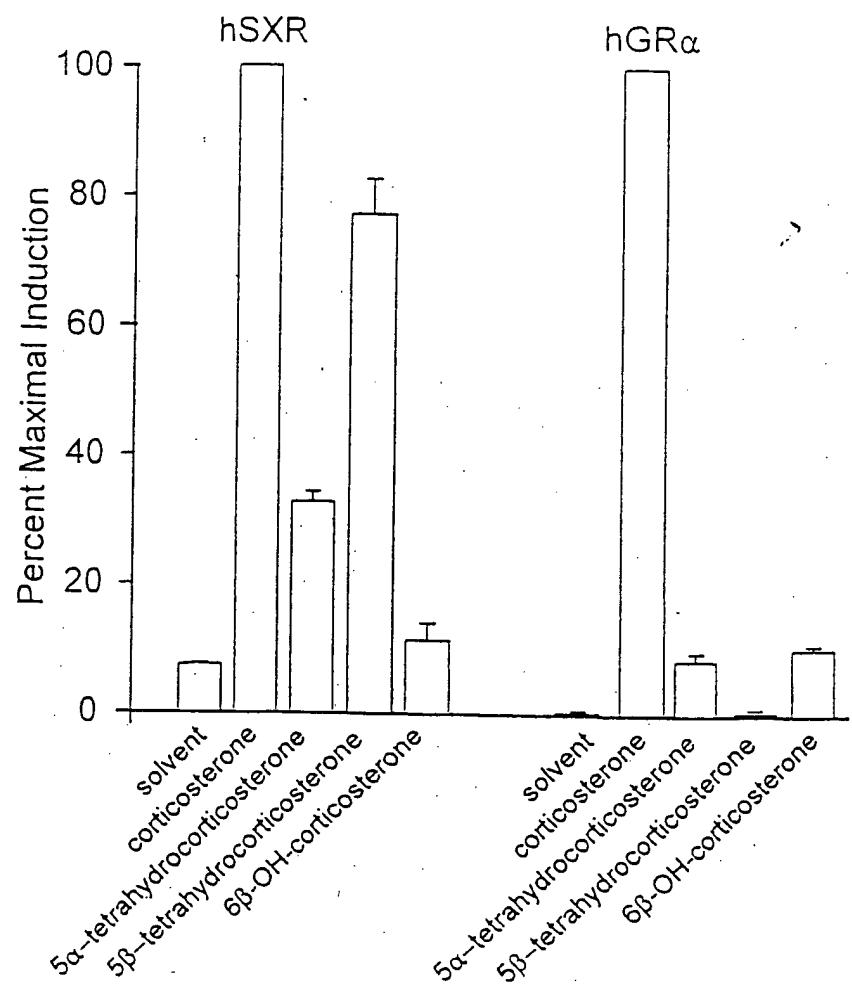


Fig. 7D

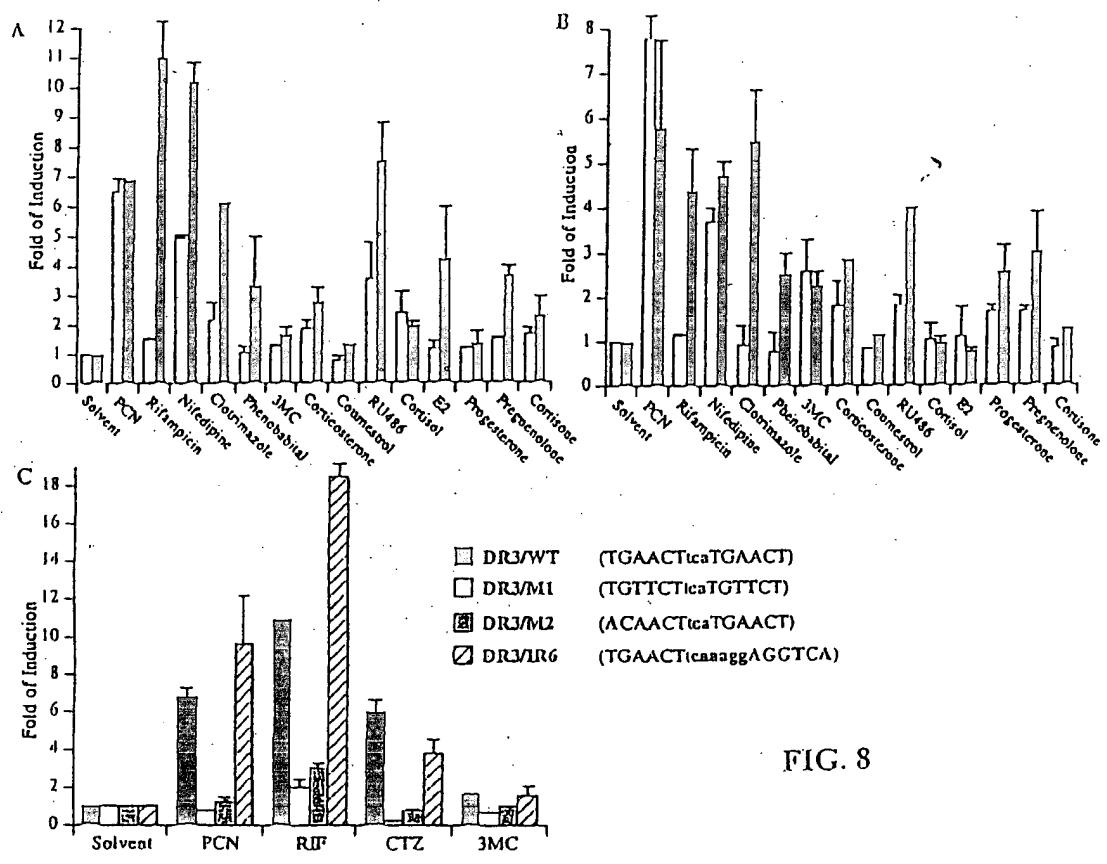


FIG. 8

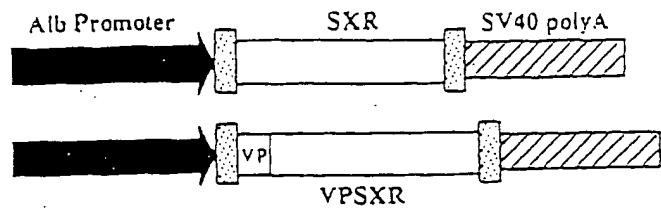


FIG. 9

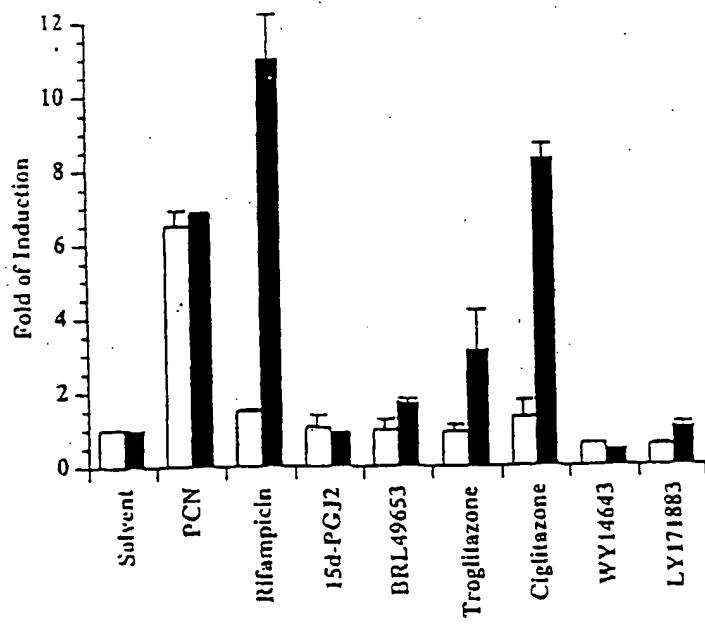


FIG. 10

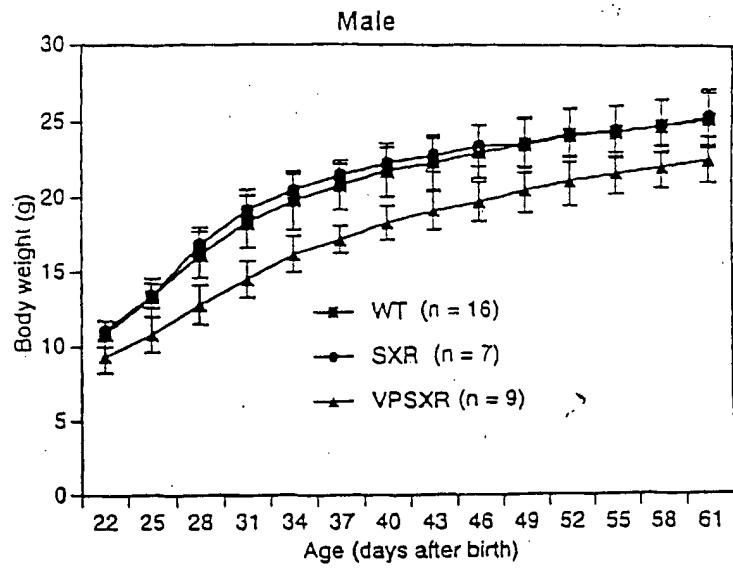


FIG. 11

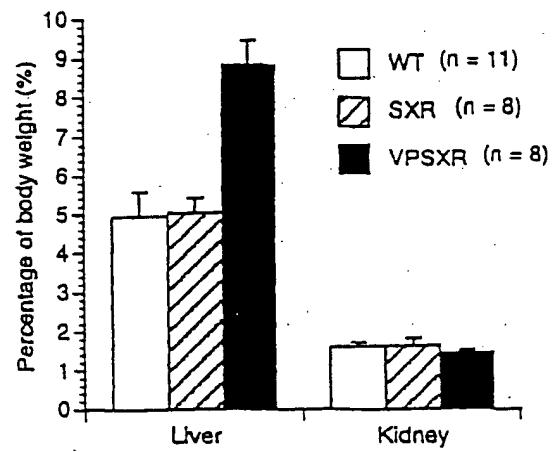


FIG. 12